ANNEXURE NO. 4

[*Vide* Unstarred question No 68(a) answered on 2nd December 2004]

DETAILS OF THE 2004 PROHIBITED LIST OF BANNED DRUGS

Valid 26 March, 2004

(Updated 17 March 2004)

SUBSTANCES AND METHODS

PROHIBITED IN-COMPETITION

PROHIBITED SUBSTANCES

S1. STIMULANTS

The following stimulants are prohibited, including both their optical (D- and L-) isomers where relevant:

Adrafinil, amfepramone, amiphenazole, amphetamine,amphetaminil, benzphetamine, bromantan, carphedon, cathine*, clobenzorex, cocaine, dimethylamphetamine, ephedrine, etilamphetamine, etilefrine, fencamfamin, fenetylline, fenfluramine, fenproporex, furfenorex, mefenorex, mephentermine, mesocarb, methamphetamine, methylamphetamine, methylenedioxyamphetamine, methylenedioxymethamphetamine, methylephedrine**, methylphenidate, modafinil, nikethamide, norfenfluramine, parahydroxyamphetamine, pemoline, phendimetrazine, phenmetrazine, phentermine, prolintane, selegiline, strychnine,** and other substances with similar chemical structure or similar pharmacological effect(s)***

* **Cathine** is prohibited when its concentration in urine is greater than 5 micrograms per millilitre.

** Each of **ephedrine** and **methylephedrine** is prohibited when its concentration in urine is greater than 10 micrograms per millilitre

*** The substances included in the 2004 monitoring Program are not considered as Prohibited Substances.

S2. NARCOTICS

The following narcotics are prohibited:

buprenorphine, dextromoramide, diamorphine (Heroin), hydromorphone, methadone, morphine, oxycodone, oxymorphone, pentazocine, pethidine.

S3. CANNABINOIDS

Cannabinoids (e.g. hashish, marijuana) are prohibited

S4. ANABOLIC AGENTS

Anabolic agents are prohibited

Anabolic Androgenic Steroids (AAS)

a. Exogenous* AAS including but not limited to

androstadienone, bolasterone, boldenone, boldione, clostebol, danazol, dehydrochloromethyltestosterone, delta1-androstene-3, 17-dione, drostanolone, drostanediol, fluoxymesterone, formebolone, gestrinone, 4-hydroxytestosterone, 4-hydroxy-19-nortestosterone, mestanolone, mesterolone, methandienone, metenolone, methandriol, methyltestosterone, mibolerone, nandrolone, 19-norandrostenediol, 19-norandrostenedione, norbolethone, norethandrolone, oxabolone, oxandrolone, oxymesterone, oxymetholone, quinbolone, stanozolol, stenbolone, 1-testosterone (delta1-dihydro-testosterone), trenbolone and other substances with similar chemical structure or similar pharmacological effect(s).

b. Endogenous** AAS including but not limited to:

androstenediol, androstenedione,dehydroepiandrosterone (DHEA),

dihydrotestosterone, testosterone and other substances with similar chemical structure or similar pharmacological effect(s):

Where a *Prohibited Substance* (as listed above) is capable of being produced by the body naturally, a *Sample* will be deemed to contain such *Prohibited Substance* where the concentration of the *Prohibited Substance* of its metabolites or markers any/or any other relevant ratio(s) in the *Athlete's Sample* so deviates from the range of values normally found in humans so as not to be consistent with normal endogenous production. A *Sample* shall not be deemed to contain a *Prohibited Substance* in any such case where the *Athlete* proves by evidence that the concentration of the *Prohibited Substance* or its metabolites or markers and/or the relevant ratio(s) in the *Athlete's Sample* is attributable to a pathological or physiological condition. In all cases, and at any concentration, the laboratory will report an adverse finding if, based on any reliable analytical method, it can show that the *Prohibited Substance* is of exogenous origin.

If the laboratory result is not conclusive and no concentration as referred to in the above paragraph is found, the relevant *Anti-Doping Organization* shall conduct a further investigation if there are serious indications, such as a comparison to reference steroid profiles, for a possible *Use* of a *Prohibited Substance.*

If the laboratory has reported the presence of a T/E ratio greater than six (6) to one (1) in the urine, further investigation is obligatory in order to determine whether the ratio is due to a physiological or pathological condition.

In both cases, the investigation will include a review of any previous tests, subsequent tests and/or results of endocrine investigations. If previous tests are not available, the *Athlete* shall undergo an endocrine investigation or be tested unannounced at least three times within a three months period.

Failure of the *athlete* to co-operate in the investigations will result in considering the *Athlete's Sample* to contain a *Prohibited Substance.*

2. Other Anabolic Agents

Clenbuterol, zeranol.

For purposes of this section:

* *"exogenous" refers to a substance which is not capable of being produced by the body naturally.*

** *"endogenous" refers to a substance which is capable of being produced by the body naturally.*

S5. PEPTIDE HORMONES

The following substances, including other substances with similar chemical structure or similar pharmacological effect(s), and their releasing factors, are prohibited.

1. **Erythropoietine (EPO);**
2. **Growth hormone (hGH) and insulin-like Growth Factor (IGF-1);**
3. **Chorionic Gonadotrophin (hCG) prohibited in males only;**
4. **Pitiutary and synthetic gonadotrophins (LH) prohibited in males only;**
5. **Insulin'**
6. **Corticotrophins.**

Unless the *Athlete* can demonstrate that the concentration was due to a physiological or pathological condition, a *Sample* will be deemed to contain a *Prohibited Substance (as listed above) where the concentration of the* Prohibited Substance or its metabolites and/or relevant ratios or markers in the *Athlete's Sample* so exceeds the range of values normally found in humans so as not to be consistent with normal endogenous production.

The presence of other substances with similar chemical structure or similar pharmacological effect(s), diagnostic marker(s) or releasing factors of a hormone listed above or of any other finding which indicate(s) that the substance detected is not the naturally present hormone, will be reported as an adverse analytical finding.

S6. PETA-2 AGONISTS

All beta-2 agonists including their D- and L- isomers are prohibited except that formoterol, salbutamol, salmeterol and terbutaline are permitted by inhalation only to prevent and/or treat asthma and exercise-induced asthma/broncho-constriction. A medical notification in accordance with section 8 of the International standard for Therapeutic Use Exemptions is required.

Despite the granting of a TUE, when the Laboratory has reported a concentration of salbutamol (free plus glucuronide) greater than 1000 ng/mL, this will be considered as an adverse analytical finding unless the athlete proves that the abnormal result was the consequence of the therapeutic use of inhaled salbutamol

S7. AGENTS WITH ANTI-OESTROGENIC ACTIVITY

Aromatase inhibitors, clomiphene, cyclofenil, tamoxifen are prohibited only in males

S8 MASKING AGENTS

Masking agents are prohibited. They are products that have the potential to impair the excretion of *Prohibited Substances*, to conceal their presence in urine or other Samples used indoping control, or to change haematological parameters. Masking agents include but are not limited to:

Diuretics*, epitestosterone, probenecid, plasma expanders (e.g. dextran, hydroxyethyl starch.)

* Amedical approval in accordance with section 7 of the International Standard for Therapeutic Use Exemptions is not valid if an *Athlete's* urine contains a diuretic in association with threshold or sub-threshold levels of a *Prohibited Substance*(s).

Diuretics include:

acetazolamide, amiloride, bumetanide, canrenone, chlortalidone, etacrynic acid, furosemide, indapamide, mersalyl, spironolactone, thiazides (e.g. bendroflumethiazide,chlorothiazide, hydrochlorothiazide) and triamterene, and other substances with similar chemical sturcture or similar pharmacological effect(s).

S9. GLUCOCORTICOSTEROIDS

Glucocorticosteroids are prohibited when adminstered orally, rectally, or by intravenous or intramuscular administration.

All other administration routes require a medical notification in accordance with section 8 of the International Standard for Therapeutic Use Exemptions.

PROHIBITED METHODS

M1 ENHANCEMENT OF OXYGEN TRANSFER

The following are prohibited:

a. Blood doping. Blood doping is the use of autologous, homologous or heterologous blood or red blood cell products of any origin, other than for legitimate medical treatment.

b. The *Use* of products that enhance the uptake, transport or delivery of oxygen, e g. erythropoietins, modified haemoglobin products including but not limited to haemoglobin-based blood substitutes, microencapsulated haemoglobin products, perfluorochemicals, and efaproxiral (RSR13).

M2 PHARMACOLOGICAL CHEMICAL AND PHYSICAL MANIPULATION

Pharmacological , chemical and physical manipulation is the *Use* of substances and methods, including masking agents, which alter, attempt to alter or may reasonably be expected to alter the integrity and validity of specimens collected in doping controls.

These include but are not limited to catheterisation, urine substitution and/or tampering, inhibition of renal excretion and alterations of testosterone and epitestosterone concentrations.

M3 GENE DOPING

Gene or cell doping is defined as the non-therapeutic use of genes, genetic elements and/or cells that have the capacity to enhance athletic performance.

SUBSTANCES AND METHODS

PROHIBITED IN- AND OUT-OF-COMPETITION

PROHIBITED SUBSTANCES

(All categories listed hereunder refer to all those substances and methods listed in the relevant section)

S4. ANABOLIC AGENTS

S5. PEPTIDE HORMONES

S6. BETA-2 AGONISTS*

S7. AGENTS WITH ANTI-OESTOGENIC ACTIVITY

S8. MASKING AGENTS

(*Only clenbuterol, and salbutamol when its concentration in urine is greater than 1000ng/ML)

PROHIBITED METHODS

M1. ENHANCEMENT OF OXYGEN TRANSFER

M2. PHARMACOLOGICAL, CHEMICAL AND PHYSICAL MANIPULATION

M3. GENE DOPING

SUBSTANCES PROHIBITED IN PARTICULAR SPORTS

P.1 ALCOHOL

Alcohol (ethanol) is prohibited *in-Competition* only, in the following sprots. Detection will be conducted by breath analysis and/or blood. The doping violation threshold for each Federation is reported in parenthesis. If no threshold is indicated, the presence of any quantity of alcohol shall constitute a doping violation.

Aeronautic (FAI)	(0.20 g/L)
Archery (FITA)	(0.10 g/L)
Automobile (FIA)	
Billiards (WCBS)	
Boules (CMSB)	(0.50 g/L)
Gymnastics (FIG)	(0.10 g/L)
Karate (WKF)	(0.40 g/L)
Modern pentathlon (UIPM)	(0.10 g/L) for the modern pentathlon discipline
Motorcycling (FIM)	
Roller Sports (FIRS)	(0.02 g/L)
Skiing (FIS)	
Triathlon (ITU)	(0.40 g/L)
Wrestling (FILA)	

P2. BETA-BLOCKERS

Unless otherwise specified, beta-blockers are prohibited *in-Competition* only, in the following sports.

Aeronautic (FAI)
Archery (FITA) (also prohibited out of competition)
Automobile (FIA)
Billiards (WCBS)
Bobsleigh (FIBT)

Boules (CMSB)
Bridge (FMB)
Chess (FIDE)
Curling (WCF)
Gymnastics (FIG)
Motorcycling (FIM)
Modern Pentathlon (UIPM) for the modern pentathlon discipline
Nine-pin bowling (FIQ)
Sailing (ISAF) match race helms only
Shooting (ISSF) (also prohibited out of competition)
Skiing (FIS) ski jumping & free style snow board
Swimming (FINA) in diving & synchronised swimming
Wrestling (FILA)
Beta-blockers include, but are not limited to, the following:

acebutolol, alprenolol, atenolol, betaxolol, bisoprolol, bunolol, carteolol, carvedilol, celiprolol, esmolol, labetalol, levobunolol, metipranolol, metoprolol, nadolol, oxprenolol, pindolol, propranolol, sotalol, timolol.

P.3 DIURETICS

Diuretics are prohibited in- and out- of competition in all sports as masking agents. However, in the following weight-classified sports and sports where weight loss can enhance performance, no Therapeutic Use Exemptions shall be granted for use of diuretics

Body-Building (IFBB)
Boxing (AIBA)
Judo (IJF)
Karate (WKF)
Powerlifting (IPF)
Rowing (Light-Weight) (FISA)
Skiing (FIS) for Ski Jumping only
Taekwondo (WTF)
Weightlifting (IWF)
Wrestling (FILA)
Wushu (IWUF)

SPECIFIED SUBSTANCES*

"Specified Substances" are listed below:

Stimulants: ephedrine, L-methylamphetamine, methylephedrine
Cannabinoids.
Inhaled Beta-2 Agonists (except clenbuterol).
Diuretics (this does not apply to section P3).
masking Agents: probenecid.
Glucocorticosteroids
Beta Blockers
Alcohol

***The *WADA Code* (10.3) states "*The Prohibited List may identify specified substances which are particularly susceptible to unintentional anti-doping rule violations because of their general availability in medicinal products or which are less likely to be successfully abused as doping agents.*" A doping violation involving such substances may result in a reduced sanction as noted in the *Code* provided that the "....*Athlete can establish that the Use of such a specified substance was not intended to enhance sport performance ...*"**